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| <b>TRANSMITTAL LETTER TO THE UNITED STATES<br/>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br/>CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>   |   | ATTORNEY'S DOCKET NUMBER<br><b>05794.00003</b><br><b>U.S. APPLICATION NO. (If known, see 37 CFR 1.5)</b><br><b>10/577124</b> |
| INTERNATIONAL APPLICATION NO.<br><b>PCT/GB2004/004775</b>   | INTERNATIONAL FILING DATE<br><b>10 November 2004 (10.11.2004)</b> | PRIORITY DATE CLAIMED<br><b>10 November 2003 (10.11.2003)</b>  |
| TITLE OF INVENTION PROTEINS INVOLVED IN QUORUM SENSING  |   |  |
| APPLICANT(S) FOR DO/EO/US <b>UNIVERSITY OF KENT</b>   |   |  |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:   |   |  |
| <p>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.</p> <p>3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</p> <p>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))           <ul style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ul> </p> <p>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2))           <ul style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ul> </p> <p>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))           <ul style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input checked="" type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input type="checkbox"/> have not been made and will not be made.</li> </ul> </p> <p>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</p> <p>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</p> <p>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p> |   |  |
| <p><b>Items 11 to 20 below concern document(s) or information included:</b></p> <p>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</p> <p>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input type="checkbox"/> A preliminary amendment.</p> <p>14. <input checked="" type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</p> <p>15. <input type="checkbox"/> A substitute specification.</p> <p>16. <input checked="" type="checkbox"/> A power of attorney and/or change of address letter.</p> <p>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.</p> <p>18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</p> <p>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</p>  |   |  |

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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| U.S. APPLICATION NO. (if known, see 37 CFR 1.5)<br><b>101577124</b>  | INTERNATIONAL APPLICATION NO.<br>PCT/GB2004/004775 | ATTORNEY'S DOCKET NUMBER<br>05794.00003                                       |   |       |              |              |   |     |    |  |                           |       |  |  |   |     |    |  |  |       |  |  |   |       |  |  |                           |       |  |  |                                 |               |  |  |   |  |  |  |              |              |   |      |            |           |  |         |  |  |  |         |   |  |         |  |        |              |              |      |              |           |    |         |                    |          |   |         |   |  |  |         |                                      |  |  |  |             |  |  |  |   |  |  |  |             |  |  |  |                   |  |  |  |             |  |  |  |   |  |  |  |           |  |  |  |                             |  |  |  |             |  |  |  |  |  |  |  |           |  |  |  |                              |  |  |  |             |  |  |  |                        |  |  |  |    |  |  |  |                      |  |  |  |    |  |  |  |
| 20. Other items or information:  |  |   |   |       |              |              |   |     |    |  |                           |       |  |  |   |     |    |  |  |       |  |  |   |       |  |  |                           |       |  |  |                                 |               |  |  |   |  |  |  |              |              |   |      |            |           |  |         |  |  |  |         |   |  |         |  |        |              |              |      |              |           |    |         |                    |          |   |         |   |  |  |         |                                      |  |  |  |             |  |  |  |   |  |  |  |             |  |  |  |                   |  |  |  |             |  |  |  |   |  |  |  |           |  |  |  |                             |  |  |  |             |  |  |  |  |  |  |  |           |  |  |  |                              |  |  |  |             |  |  |  |                        |  |  |  |    |  |  |  |                      |  |  |  |    |  |  |  |
| <p>The following fees have been submitted</p> <table border="1"> <tr> <td>21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a)).....</td> <td>\$300</td> <td>CALCULATIONS</td> <td>PTO USE ONLY</td> </tr> <tr> <td>22. <input type="checkbox"/> Examination fee (37 CFR 1.492(c))<br/><br/>If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4).....</td> <td>\$0</td> <td>\$</td> <td></td> </tr> <tr> <td>All other situations.....</td> <td>\$200</td> <td></td> <td></td> </tr> <tr> <td>23. <input type="checkbox"/> Search fee (37 CFR 1.492(b))<br/><br/>If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4).....</td> <td>\$0</td> <td>\$</td> <td></td> </tr> <tr> <td>Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority.....</td> <td>\$100</td> <td></td> <td></td> </tr> <tr> <td>International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB.....</td> <td>\$400</td> <td></td> <td></td> </tr> <tr> <td>All other situations.....</td> <td>\$500</td> <td></td> <td></td> </tr> <tr> <td><b>TOTAL OF 21, 22 and 23 =</b></td> <td><b>300.00</b></td> <td></td> <td></td> </tr> <tr> <td colspan="2"><input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)).<br/>The fee is \$250 for each additional 50 sheets of paper or fraction thereof.</td> <td></td> <td></td> </tr> <tr> <td>Total Sheets</td> <td>Extra Sheets</td> <td>Number of each additional 50 or fraction thereof (round up to a whole number)</td> <td>RATE</td> </tr> <tr> <td>17 - 100 =</td> <td>-83 /50 =</td> <td></td> <td>x \$250</td> </tr> <tr> <td colspan="2"></td> <td></td> <td>\$ 0.00</td> </tr> <tr> <td colspan="2">Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).</td> <td>\$ 0.00</td> <td></td> </tr> <tr> <td>CLAIMS</td> <td>NUMBER FILED</td> <td>NUMBER EXTRA</td> <td>RATE</td> </tr> <tr> <td>Total claims</td> <td>37 - 20 =</td> <td>17</td> <td>x \$ 50</td> </tr> <tr> <td>Independent claims</td> <td>12 - 3 =</td> <td>9</td> <td>x \$200</td> </tr> <tr> <td colspan="2">MULTIPLE DEPENDENT CLAIM(S) (if applicable)</td> <td></td> <td>+ \$360</td> </tr> <tr> <td colspan="4"><b>TOTAL OF ABOVE CALCULATIONS =</b></td> </tr> <tr> <td colspan="4">\$ 3,310.00</td> </tr> <tr> <td colspan="4"><input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½.</td> </tr> <tr> <td colspan="4">\$ 1,655.00</td> </tr> <tr> <td colspan="4"><b>SUBTOTAL =</b></td> </tr> <tr> <td colspan="4">\$ 1,655.00</td> </tr> <tr> <td colspan="4">Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).</td> </tr> <tr> <td colspan="4">+ \$ 0.00</td> </tr> <tr> <td colspan="4"><b>TOTAL NATIONAL FEE =</b></td> </tr> <tr> <td colspan="4">\$ 1,655.00</td> </tr> <tr> <td colspan="4">Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property</td> </tr> <tr> <td colspan="4">+ \$ 0.00</td> </tr> <tr> <td colspan="4"><b>TOTAL FEES ENCLOSED =</b></td> </tr> <tr> <td colspan="4">\$ 1,655.00</td> </tr> <tr> <td colspan="4">Amount to be refunded:</td> </tr> <tr> <td colspan="4">\$</td> </tr> <tr> <td colspan="4">Amount to be charged</td> </tr> <tr> <td colspan="4">\$</td> </tr> </table> |  |   | 21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a))..... | \$300 | CALCULATIONS | PTO USE ONLY | 22. <input type="checkbox"/> Examination fee (37 CFR 1.492(c))<br><br>If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... | \$0 | \$ |  | All other situations..... | \$200 |  |  | 23. <input type="checkbox"/> Search fee (37 CFR 1.492(b))<br><br>If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... | \$0 | \$ |  | Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority..... | \$100 |  |  | International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB..... | \$400 |  |  | All other situations..... | \$500 |  |  | <b>TOTAL OF 21, 22 and 23 =</b> | <b>300.00</b> |  |  | <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)).<br>The fee is \$250 for each additional 50 sheets of paper or fraction thereof. |  |  |  | Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE | 17 - 100 = | -83 /50 = |  | x \$250 |  |  |  | \$ 0.00 | Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)). |  | \$ 0.00 |  | CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | Total claims | 37 - 20 = | 17 | x \$ 50 | Independent claims | 12 - 3 = | 9 | x \$200 | MULTIPLE DEPENDENT CLAIM(S) (if applicable) |  |  | + \$360 | <b>TOTAL OF ABOVE CALCULATIONS =</b> |  |  |  | \$ 3,310.00 |  |  |  | <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½. |  |  |  | \$ 1,655.00 |  |  |  | <b>SUBTOTAL =</b> |  |  |  | \$ 1,655.00 |  |  |  | Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)). |  |  |  | + \$ 0.00 |  |  |  | <b>TOTAL NATIONAL FEE =</b> |  |  |  | \$ 1,655.00 |  |  |  | Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property |  |  |  | + \$ 0.00 |  |  |  | <b>TOTAL FEES ENCLOSED =</b> |  |  |  | \$ 1,655.00 |  |  |  | Amount to be refunded: |  |  |  | \$ |  |  |  | Amount to be charged |  |  |  | \$ |  |  |  |
| 21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a)).....  | \$300  | CALCULATIONS  | PTO USE ONLY  |       |              |              |   |     |    |  |                           |       |  |  |   |     |    |  |  |       |  |  |   |       |  |  |                           |       |  |  |                                 |               |  |  |   |  |  |  |              |              |   |      |            |           |  |         |  |  |  |         |   |  |         |  |        |              |              |      |              |           |    |         |                    |          |   |         |   |  |  |         |                                      |  |  |  |             |  |  |  |   |  |  |  |             |  |  |  |                   |  |  |  |             |  |  |  |   |  |  |  |           |  |  |  |                             |  |  |  |             |  |  |  |  |  |  |  |           |  |  |  |                              |  |  |  |             |  |  |  |                        |  |  |  |    |  |  |  |                      |  |  |  |    |  |  |  |
| 22. <input type="checkbox"/> Examination fee (37 CFR 1.492(c))<br><br>If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4).....  | \$0  | \$  |   |       |              |              |   |     |    |  |                           |       |  |  |   |     |    |  |  |       |  |  |   |       |  |  |                           |       |  |  |                                 |               |  |  |   |  |  |  |              |              |   |      |            |           |  |         |  |  |  |         |   |  |         |  |        |              |              |      |              |           |    |         |                    |          |   |         |   |  |  |         |                                      |  |  |  |             |  |  |  |   |  |  |  |             |  |  |  |                   |  |  |  |             |  |  |  |   |  |  |  |           |  |  |  |                             |  |  |  |             |  |  |  |  |  |  |  |           |  |  |  |                              |  |  |  |             |  |  |  |                        |  |  |  |    |  |  |  |                      |  |  |  |    |  |  |  |
| All other situations.....  | \$200  |   |   |       |              |              |   |     |    |  |                           |       |  |  |   |     |    |  |  |       |  |  |   |       |  |  |                           |       |  |  |                                 |               |  |  |   |  |  |  |              |              |   |      |            |           |  |         |  |  |  |         |   |  |         |  |        |              |              |      |              |           |    |         |                    |          |   |         |   |  |  |         |                                      |  |  |  |             |  |  |  |   |  |  |  |             |  |  |  |                   |  |  |  |             |  |  |  |   |  |  |  |           |  |  |  |                             |  |  |  |             |  |  |  |  |  |  |  |           |  |  |  |                              |  |  |  |             |  |  |  |                        |  |  |  |    |  |  |  |                      |  |  |  |    |  |  |  |
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| Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority.....   | \$100  |   |   |       |              |              |   |     |    |  |                           |       |  |  |   |     |    |  |  |       |  |  |   |       |  |  |                           |       |  |  |                                 |               |  |  |   |  |  |  |              |              |   |      |            |           |  |         |  |  |  |         |   |  |         |  |        |              |              |      |              |           |    |         |                    |          |   |         |   |  |  |         |                                      |  |  |  |             |  |  |  |   |  |  |  |             |  |  |  |                   |  |  |  |             |  |  |  |   |  |  |  |           |  |  |  |                             |  |  |  |             |  |  |  |  |  |  |  |           |  |  |  |                              |  |  |  |             |  |  |  |                        |  |  |  |    |  |  |  |                      |  |  |  |    |  |  |  |
| International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB.....  | \$400  |   |   |       |              |              |   |     |    |  |                           |       |  |  |   |     |    |  |  |       |  |  |   |       |  |  |                           |       |  |  |                                 |               |  |  |   |  |  |  |              |              |   |      |            |           |  |         |  |  |  |         |   |  |         |  |        |              |              |      |              |           |    |         |                    |          |   |         |   |  |  |         |                                      |  |  |  |             |  |  |  |   |  |  |  |             |  |  |  |                   |  |  |  |             |  |  |  |   |  |  |  |           |  |  |  |                             |  |  |  |             |  |  |  |  |  |  |  |           |  |  |  |                              |  |  |  |             |  |  |  |                        |  |  |  |    |  |  |  |                      |  |  |  |    |  |  |  |
| All other situations.....  | \$500  |   |   |       |              |              |   |     |    |  |                           |       |  |  |   |     |    |  |  |       |  |  |   |       |  |  |                           |       |  |  |                                 |               |  |  |   |  |  |  |              |              |   |      |            |           |  |         |  |  |  |         |   |  |         |  |        |              |              |      |              |           |    |         |                    |          |   |         |   |  |  |         |                                      |  |  |  |             |  |  |  |   |  |  |  |             |  |  |  |                   |  |  |  |             |  |  |  |   |  |  |  |           |  |  |  |                             |  |  |  |             |  |  |  |  |  |  |  |           |  |  |  |                              |  |  |  |             |  |  |  |                        |  |  |  |    |  |  |  |                      |  |  |  |    |  |  |  |
| <b>TOTAL OF 21, 22 and 23 =</b>  | <b>300.00</b>                                      |   |   |       |              |              |   |     |    |  |                           |       |  |  |   |     |    |  |  |       |  |  |   |       |  |  |                           |       |  |  |                                 |               |  |  |   |  |  |  |              |              |   |      |            |           |  |         |  |  |  |         |   |  |         |  |        |              |              |      |              |           |    |         |                    |          |   |         |   |  |  |         |                                      |  |  |  |             |  |  |  |   |  |  |  |             |  |  |  |                   |  |  |  |             |  |  |  |   |  |  |  |           |  |  |  |                             |  |  |  |             |  |  |  |  |  |  |  |           |  |  |  |                              |  |  |  |             |  |  |  |                        |  |  |  |    |  |  |  |                      |  |  |  |    |  |  |  |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)).<br>The fee is \$250 for each additional 50 sheets of paper or fraction thereof.  |  |   |   |       |              |              |   |     |    |  |                           |       |  |  |   |     |    |  |  |       |  |  |   |       |  |  |                           |       |  |  |                                 |               |  |  |   |  |  |  |              |              |   |      |            |           |  |         |  |  |  |         |   |  |         |  |        |              |              |      |              |           |    |         |                    |          |   |         |   |  |  |         |                                      |  |  |  |             |  |  |  |   |  |  |  |             |  |  |  |                   |  |  |  |             |  |  |  |   |  |  |  |           |  |  |  |                             |  |  |  |             |  |  |  |  |  |  |  |           |  |  |  |                              |  |  |  |             |  |  |  |                        |  |  |  |    |  |  |  |                      |  |  |  |    |  |  |  |
| Total Sheets   | Extra Sheets                                       | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE  |       |              |              |   |     |    |  |                           |       |  |  |   |     |    |  |  |       |  |  |   |       |  |  |                           |       |  |  |                                 |               |  |  |   |  |  |  |              |              |   |      |            |           |  |         |  |  |  |         |   |  |         |  |        |              |              |      |              |           |    |         |                    |          |   |         |   |  |  |         |                                      |  |  |  |             |  |  |  |   |  |  |  |             |  |  |  |                   |  |  |  |             |  |  |  |   |  |  |  |           |  |  |  |                             |  |  |  |             |  |  |  |  |  |  |  |           |  |  |  |                              |  |  |  |             |  |  |  |                        |  |  |  |    |  |  |  |                      |  |  |  |    |  |  |  |
| 17 - 100 =   | -83 /50 =  |   | x \$250   |       |              |              |   |     |    |  |                           |       |  |  |   |     |    |  |  |       |  |  |   |       |  |  |                           |       |  |  |                                 |               |  |  |   |  |  |  |              |              |   |      |            |           |  |         |  |  |  |         |   |  |         |  |        |              |              |      |              |           |    |         |                    |          |   |         |   |  |  |         |                                      |  |  |  |             |  |  |  |   |  |  |  |             |  |  |  |                   |  |  |  |             |  |  |  |   |  |  |  |           |  |  |  |                             |  |  |  |             |  |  |  |  |  |  |  |           |  |  |  |                              |  |  |  |             |  |  |  |                        |  |  |  |    |  |  |  |                      |  |  |  |    |  |  |  |
|  |  |   | \$ 0.00   |       |              |              |   |     |    |  |                           |       |  |  |   |     |    |  |  |       |  |  |   |       |  |  |                           |       |  |  |                                 |               |  |  |   |  |  |  |              |              |   |      |            |           |  |         |  |  |  |         |   |  |         |  |        |              |              |      |              |           |    |         |                    |          |   |         |   |  |  |         |                                      |  |  |  |             |  |  |  |   |  |  |  |             |  |  |  |                   |  |  |  |             |  |  |  |   |  |  |  |           |  |  |  |                             |  |  |  |             |  |  |  |  |  |  |  |           |  |  |  |                              |  |  |  |             |  |  |  |                        |  |  |  |    |  |  |  |                      |  |  |  |    |  |  |  |
| Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).  |  | \$ 0.00   |   |       |              |              |   |     |    |  |                           |       |  |  |   |     |    |  |  |       |  |  |   |       |  |  |                           |       |  |  |                                 |               |  |  |   |  |  |  |              |              |   |      |            |           |  |         |  |  |  |         |   |  |         |  |        |              |              |      |              |           |    |         |                    |          |   |         |   |  |  |         |                                      |  |  |  |             |  |  |  |   |  |  |  |             |  |  |  |                   |  |  |  |             |  |  |  |   |  |  |  |           |  |  |  |                             |  |  |  |             |  |  |  |  |  |  |  |           |  |  |  |                              |  |  |  |             |  |  |  |                        |  |  |  |    |  |  |  |                      |  |  |  |    |  |  |  |
| CLAIMS   | NUMBER FILED                                       | NUMBER EXTRA  | RATE  |       |              |              |   |     |    |  |                           |       |  |  |   |     |    |  |  |       |  |  |   |       |  |  |                           |       |  |  |                                 |               |  |  |   |  |  |  |              |              |   |      |            |           |  |         |  |  |  |         |   |  |         |  |        |              |              |      |              |           |    |         |                    |          |   |         |   |  |  |         |                                      |  |  |  |             |  |  |  |   |  |  |  |             |  |  |  |                   |  |  |  |             |  |  |  |   |  |  |  |           |  |  |  |                             |  |  |  |             |  |  |  |  |  |  |  |           |  |  |  |                              |  |  |  |             |  |  |  |                        |  |  |  |    |  |  |  |                      |  |  |  |    |  |  |  |
| Total claims   | 37 - 20 =  | 17  | x \$ 50   |       |              |              |   |     |    |  |                           |       |  |  |   |     |    |  |  |       |  |  |   |       |  |  |                           |       |  |  |                                 |               |  |  |   |  |  |  |              |              |   |      |            |           |  |         |  |  |  |         |   |  |         |  |        |              |              |      |              |           |    |         |                    |          |   |         |   |  |  |         |                                      |  |  |  |             |  |  |  |   |  |  |  |             |  |  |  |                   |  |  |  |             |  |  |  |   |  |  |  |           |  |  |  |                             |  |  |  |             |  |  |  |  |  |  |  |           |  |  |  |                              |  |  |  |             |  |  |  |                        |  |  |  |    |  |  |  |                      |  |  |  |    |  |  |  |
| Independent claims   | 12 - 3 =   | 9   | x \$200   |       |              |              |   |     |    |  |                           |       |  |  |   |     |    |  |  |       |  |  |   |       |  |  |                           |       |  |  |                                 |               |  |  |   |  |  |  |              |              |   |      |            |           |  |         |  |  |  |         |   |  |         |  |        |              |              |      |              |           |    |         |                    |          |   |         |   |  |  |         |                                      |  |  |  |             |  |  |  |   |  |  |  |             |  |  |  |                   |  |  |  |             |  |  |  |   |  |  |  |           |  |  |  |                             |  |  |  |             |  |  |  |  |  |  |  |           |  |  |  |                              |  |  |  |             |  |  |  |                        |  |  |  |    |  |  |  |                      |  |  |  |    |  |  |  |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable)  |  |   | + \$360   |       |              |              |   |     |    |  |                           |       |  |  |   |     |    |  |  |       |  |  |   |       |  |  |                           |       |  |  |                                 |               |  |  |   |  |  |  |              |              |   |      |            |           |  |         |  |  |  |         |   |  |         |  |        |              |              |      |              |           |    |         |                    |          |   |         |   |  |  |         |                                      |  |  |  |             |  |  |  |   |  |  |  |             |  |  |  |                   |  |  |  |             |  |  |  |   |  |  |  |           |  |  |  |                             |  |  |  |             |  |  |  |  |  |  |  |           |  |  |  |                              |  |  |  |             |  |  |  |                        |  |  |  |    |  |  |  |                      |  |  |  |    |  |  |  |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>   |  |   |   |       |              |              |   |     |    |  |                           |       |  |  |   |     |    |  |  |       |  |  |   |       |  |  |                           |       |  |  |                                 |               |  |  |   |  |  |  |              |              |   |      |            |           |  |         |  |  |  |         |   |  |         |  |        |              |              |      |              |           |    |         |                    |          |   |         |   |  |  |         |                                      |  |  |  |             |  |  |  |   |  |  |  |             |  |  |  |                   |  |  |  |             |  |  |  |   |  |  |  |           |  |  |  |                             |  |  |  |             |  |  |  |  |  |  |  |           |  |  |  |                              |  |  |  |             |  |  |  |                        |  |  |  |    |  |  |  |                      |  |  |  |    |  |  |  |
| \$ 3,310.00  |  |   |   |       |              |              |   |     |    |  |                           |       |  |  |   |     |    |  |  |       |  |  |   |       |  |  |                           |       |  |  |                                 |               |  |  |   |  |  |  |              |              |   |      |            |           |  |         |  |  |  |         |   |  |         |  |        |              |              |      |              |           |    |         |                    |          |   |         |   |  |  |         |                                      |  |  |  |             |  |  |  |   |  |  |  |             |  |  |  |                   |  |  |  |             |  |  |  |   |  |  |  |           |  |  |  |                             |  |  |  |             |  |  |  |  |  |  |  |           |  |  |  |                              |  |  |  |             |  |  |  |                        |  |  |  |    |  |  |  |                      |  |  |  |    |  |  |  |
| <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½.  |  |   |   |       |              |              |   |     |    |  |                           |       |  |  |   |     |    |  |  |       |  |  |   |       |  |  |                           |       |  |  |                                 |               |  |  |   |  |  |  |              |              |   |      |            |           |  |         |  |  |  |         |   |  |         |  |        |              |              |      |              |           |    |         |                    |          |   |         |   |  |  |         |                                      |  |  |  |             |  |  |  |   |  |  |  |             |  |  |  |                   |  |  |  |             |  |  |  |   |  |  |  |           |  |  |  |                             |  |  |  |             |  |  |  |  |  |  |  |           |  |  |  |                              |  |  |  |             |  |  |  |                        |  |  |  |    |  |  |  |                      |  |  |  |    |  |  |  |
| \$ 1,655.00  |  |   |   |       |              |              |   |     |    |  |                           |       |  |  |   |     |    |  |  |       |  |  |   |       |  |  |                           |       |  |  |                                 |               |  |  |   |  |  |  |              |              |   |      |            |           |  |         |  |  |  |         |   |  |         |  |        |              |              |      |              |           |    |         |                    |          |   |         |   |  |  |         |                                      |  |  |  |             |  |  |  |   |  |  |  |             |  |  |  |                   |  |  |  |             |  |  |  |   |  |  |  |           |  |  |  |                             |  |  |  |             |  |  |  |  |  |  |  |           |  |  |  |                              |  |  |  |             |  |  |  |                        |  |  |  |    |  |  |  |                      |  |  |  |    |  |  |  |
| <b>SUBTOTAL =</b>  |  |   |   |       |              |              |   |     |    |  |                           |       |  |  |   |     |    |  |  |       |  |  |   |       |  |  |                           |       |  |  |                                 |               |  |  |   |  |  |  |              |              |   |      |            |           |  |         |  |  |  |         |   |  |         |  |        |              |              |      |              |           |    |         |                    |          |   |         |   |  |  |         |                                      |  |  |  |             |  |  |  |   |  |  |  |             |  |  |  |                   |  |  |  |             |  |  |  |   |  |  |  |           |  |  |  |                             |  |  |  |             |  |  |  |  |  |  |  |           |  |  |  |                              |  |  |  |             |  |  |  |                        |  |  |  |    |  |  |  |                      |  |  |  |    |  |  |  |
| \$ 1,655.00  |  |   |   |       |              |              |   |     |    |  |                           |       |  |  |   |     |    |  |  |       |  |  |   |       |  |  |                           |       |  |  |                                 |               |  |  |   |  |  |  |              |              |   |      |            |           |  |         |  |  |  |         |   |  |         |  |        |              |              |      |              |           |    |         |                    |          |   |         |   |  |  |         |                                      |  |  |  |             |  |  |  |   |  |  |  |             |  |  |  |                   |  |  |  |             |  |  |  |   |  |  |  |           |  |  |  |                             |  |  |  |             |  |  |  |  |  |  |  |           |  |  |  |                              |  |  |  |             |  |  |  |                        |  |  |  |    |  |  |  |                      |  |  |  |    |  |  |  |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).  |  |   |   |       |              |              |   |     |    |  |                           |       |  |  |   |     |    |  |  |       |  |  |   |       |  |  |                           |       |  |  |                                 |               |  |  |   |  |  |  |              |              |   |      |            |           |  |         |  |  |  |         |   |  |         |  |        |              |              |      |              |           |    |         |                    |          |   |         |   |  |  |         |                                      |  |  |  |             |  |  |  |   |  |  |  |             |  |  |  |                   |  |  |  |             |  |  |  |   |  |  |  |           |  |  |  |                             |  |  |  |             |  |  |  |  |  |  |  |           |  |  |  |                              |  |  |  |             |  |  |  |                        |  |  |  |    |  |  |  |                      |  |  |  |    |  |  |  |
| + \$ 0.00  |  |   |   |       |              |              |   |     |    |  |                           |       |  |  |   |     |    |  |  |       |  |  |   |       |  |  |                           |       |  |  |                                 |               |  |  |   |  |  |  |              |              |   |      |            |           |  |         |  |  |  |         |   |  |         |  |        |              |              |      |              |           |    |         |                    |          |   |         |   |  |  |         |                                      |  |  |  |             |  |  |  |   |  |  |  |             |  |  |  |                   |  |  |  |             |  |  |  |   |  |  |  |           |  |  |  |                             |  |  |  |             |  |  |  |  |  |  |  |           |  |  |  |                              |  |  |  |             |  |  |  |                        |  |  |  |    |  |  |  |                      |  |  |  |    |  |  |  |
| <b>TOTAL NATIONAL FEE =</b>  |  |   |   |       |              |              |   |     |    |  |                           |       |  |  |   |     |    |  |  |       |  |  |   |       |  |  |                           |       |  |  |                                 |               |  |  |   |  |  |  |              |              |   |      |            |           |  |         |  |  |  |         |   |  |         |  |        |              |              |      |              |           |    |         |                    |          |   |         |   |  |  |         |                                      |  |  |  |             |  |  |  |   |  |  |  |             |  |  |  |                   |  |  |  |             |  |  |  |   |  |  |  |           |  |  |  |                             |  |  |  |             |  |  |  |  |  |  |  |           |  |  |  |                              |  |  |  |             |  |  |  |                        |  |  |  |    |  |  |  |                      |  |  |  |    |  |  |  |
| \$ 1,655.00  |  |   |   |       |              |              |   |     |    |  |                           |       |  |  |   |     |    |  |  |       |  |  |   |       |  |  |                           |       |  |  |                                 |               |  |  |   |  |  |  |              |              |   |      |            |           |  |         |  |  |  |         |   |  |         |  |        |              |              |      |              |           |    |         |                    |          |   |         |   |  |  |         |                                      |  |  |  |             |  |  |  |   |  |  |  |             |  |  |  |                   |  |  |  |             |  |  |  |   |  |  |  |           |  |  |  |                             |  |  |  |             |  |  |  |  |  |  |  |           |  |  |  |                              |  |  |  |             |  |  |  |                        |  |  |  |    |  |  |  |                      |  |  |  |    |  |  |  |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property   |  |   |   |       |              |              |   |     |    |  |                           |       |  |  |   |     |    |  |  |       |  |  |   |       |  |  |                           |       |  |  |                                 |               |  |  |   |  |  |  |              |              |   |      |            |           |  |         |  |  |  |         |   |  |         |  |        |              |              |      |              |           |    |         |                    |          |   |         |   |  |  |         |                                      |  |  |  |             |  |  |  |   |  |  |  |             |  |  |  |                   |  |  |  |             |  |  |  |   |  |  |  |           |  |  |  |                             |  |  |  |             |  |  |  |  |  |  |  |           |  |  |  |                              |  |  |  |             |  |  |  |                        |  |  |  |    |  |  |  |                      |  |  |  |    |  |  |  |
| + \$ 0.00  |  |   |   |       |              |              |   |     |    |  |                           |       |  |  |   |     |    |  |  |       |  |  |   |       |  |  |                           |       |  |  |                                 |               |  |  |   |  |  |  |              |              |   |      |            |           |  |         |  |  |  |         |   |  |         |  |        |              |              |      |              |           |    |         |                    |          |   |         |   |  |  |         |                                      |  |  |  |             |  |  |  |   |  |  |  |             |  |  |  |                   |  |  |  |             |  |  |  |   |  |  |  |           |  |  |  |                             |  |  |  |             |  |  |  |  |  |  |  |           |  |  |  |                              |  |  |  |             |  |  |  |                        |  |  |  |    |  |  |  |                      |  |  |  |    |  |  |  |
| <b>TOTAL FEES ENCLOSED =</b>   |  |   |   |       |              |              |   |     |    |  |                           |       |  |  |   |     |    |  |  |       |  |  |   |       |  |  |                           |       |  |  |                                 |               |  |  |   |  |  |  |              |              |   |      |            |           |  |         |  |  |  |         |   |  |         |  |        |              |              |      |              |           |    |         |                    |          |   |         |   |  |  |         |                                      |  |  |  |             |  |  |  |   |  |  |  |             |  |  |  |                   |  |  |  |             |  |  |  |   |  |  |  |           |  |  |  |                             |  |  |  |             |  |  |  |  |  |  |  |           |  |  |  |                              |  |  |  |             |  |  |  |                        |  |  |  |    |  |  |  |                      |  |  |  |    |  |  |  |
| \$ 1,655.00  |  |   |   |       |              |              |   |     |    |  |                           |       |  |  |   |     |    |  |  |       |  |  |   |       |  |  |                           |       |  |  |                                 |               |  |  |   |  |  |  |              |              |   |      |            |           |  |         |  |  |  |         |   |  |         |  |        |              |              |      |              |           |    |         |                    |          |   |         |   |  |  |         |                                      |  |  |  |             |  |  |  |   |  |  |  |             |  |  |  |                   |  |  |  |             |  |  |  |   |  |  |  |           |  |  |  |                             |  |  |  |             |  |  |  |  |  |  |  |           |  |  |  |                              |  |  |  |             |  |  |  |                        |  |  |  |    |  |  |  |                      |  |  |  |    |  |  |  |
| Amount to be refunded:   |  |   |   |       |              |              |   |     |    |  |                           |       |  |  |   |     |    |  |  |       |  |  |   |       |  |  |                           |       |  |  |                                 |               |  |  |   |  |  |  |              |              |   |      |            |           |  |         |  |  |  |         |   |  |         |  |        |              |              |      |              |           |    |         |                    |          |   |         |   |  |  |         |                                      |  |  |  |             |  |  |  |   |  |  |  |             |  |  |  |                   |  |  |  |             |  |  |  |   |  |  |  |           |  |  |  |                             |  |  |  |             |  |  |  |  |  |  |  |           |  |  |  |                              |  |  |  |             |  |  |  |                        |  |  |  |    |  |  |  |                      |  |  |  |    |  |  |  |
| \$   |  |   |   |       |              |              |   |     |    |  |                           |       |  |  |   |     |    |  |  |       |  |  |   |       |  |  |                           |       |  |  |                                 |               |  |  |   |  |  |  |              |              |   |      |            |           |  |         |  |  |  |         |   |  |         |  |        |              |              |      |              |           |    |         |                    |          |   |         |   |  |  |         |                                      |  |  |  |             |  |  |  |   |  |  |  |             |  |  |  |                   |  |  |  |             |  |  |  |   |  |  |  |           |  |  |  |                             |  |  |  |             |  |  |  |  |  |  |  |           |  |  |  |                              |  |  |  |             |  |  |  |                        |  |  |  |    |  |  |  |                      |  |  |  |    |  |  |  |
| Amount to be charged   |  |   |   |       |              |              |   |     |    |  |                           |       |  |  |   |     |    |  |  |       |  |  |   |       |  |  |                           |       |  |  |                                 |               |  |  |   |  |  |  |              |              |   |      |            |           |  |         |  |  |  |         |   |  |         |  |        |              |              |      |              |           |    |         |                    |          |   |         |   |  |  |         |                                      |  |  |  |             |  |  |  |   |  |  |  |             |  |  |  |                   |  |  |  |             |  |  |  |   |  |  |  |           |  |  |  |                             |  |  |  |             |  |  |  |  |  |  |  |           |  |  |  |                              |  |  |  |             |  |  |  |                        |  |  |  |    |  |  |  |                      |  |  |  |    |  |  |  |
| \$   |  |   |   |       |              |              |   |     |    |  |                           |       |  |  |   |     |    |  |  |       |  |  |   |       |  |  |                           |       |  |  |                                 |               |  |  |   |  |  |  |              |              |   |      |            |           |  |         |  |  |  |         |   |  |         |  |        |              |              |      |              |           |    |         |                    |          |   |         |   |  |  |         |                                      |  |  |  |             |  |  |  |   |  |  |  |             |  |  |  |                   |  |  |  |             |  |  |  |   |  |  |  |           |  |  |  |                             |  |  |  |             |  |  |  |  |  |  |  |           |  |  |  |                              |  |  |  |             |  |  |  |                        |  |  |  |    |  |  |  |                      |  |  |  |    |  |  |  |

**10/577124**

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NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

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APR 26 2006  
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Practitioner's Docket No. 05794.00003

CHAPTER II

Preliminary Classification:  
Proposed Class:  
Subclass:

**TRANSMITTAL LETTER  
TO THE UNITED STATES ELECTED OFFICE (EO/US)  
(ENTRY INTO U.S. NATIONAL PHASE UNDER CHAPTER II)**

10 November 2004

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International Application No.

International Filing Date

Priority Date Claimed

PROTEINS INVOLVED IN QUORUM SENSING

Title of Invention

University Of Kent

Applicants

Mail Stop PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

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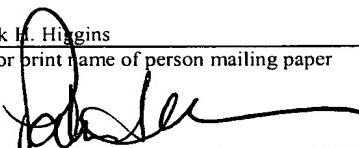
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